

Date: Mon, 1 Mar 93 18:39:52 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #272
To: Info-Hams

Info-Hams Digest Mon, 1 Mar 93 Volume 93 : Issue 272

Today's Topics:

 CDROM callsign data?
 Deviation Measurement and Icom 24AT Adjustment Req'd
 Gas filled coax (Was: Re: Soldering PL259's)
 Ground planes and vertical dipoles
 Help! TVI in touch on lamps.
 Help with QSL address
 How to use a TS-520 w/ an Isolooop
 IC-W21AT - an opinion
 Motorola Radius Programming
 NEED DOPPLER DF INFO
 PI Networks
 SB200 electrolytic cap...HELP!!!!
 TM221-A and PK-232-MBX for sale
 too darn big! (3 msgs)
 Wanted:: 9913 -- good source?
 Want to know best time for UK contacts
 Where to buy Litz wire
 Yet Another License Datapoint...

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 1 Mar 1993 12:57:19 EST
From: saimiri.primate.wisc.edu!zaphod.mps.ohio-state.edu!wupost!psuvax1!psuvm!
pjc130@ames.arpa
Subject: CDROM callsign data?
To: info-hams@ucsd.edu

In article <C34JMB.70C@acsu.buffalo.edu>, beers@cs.buffalo.edu (Andrew Beers) says:

>

>Recently, I saw some discussion on getting callsign data and ham-related
>info/programs on a CDRom. Can someone send me info on this?

Buckmaster has one for around \$50. They advertise in all ham mags.

Date: 1 Mar 93 12:48:10 EST

From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa

Subject: Deviation Measurement and Icom 24AT Adjustment Req'd

To: info-hams@ucsd.edu

In article <9302261603.AA17171@ucsd.edu>, jds@emclab.ATt.COM wrote:

>

> Hey folks, the deviation is low on my Icom 24AT.

> So..I see on the schematic that there are TWO pots on the output of
> the microphone op-amp. These dividers (VMOD and UMOD) feed the VHF
> and UHF PLL/amplifier sections respectively. The question is, where
> are they located internally?

Jim-

I don't know where these pots are located either, but they are the PEAK deviation pots. There are apparantly two such pots because the VHF and UHF modulators have slightly different modulation sensitivities. There is no convenient way to adjust average deviation or mike gain.

My IC-24AT also has low microphone deviation. When it was new, I found peak deviation at about 3.5 KHz on both VHF and UHF, with less than 1 KHz average deviation. I took it back to AES, where they adjusted peak deviation to about 5.5 KHz on VHF and 4.5 KHz on UHF. Average deviation is now just over 1 KHz. I also tried a replacement mike element plugged into the external mike jack, as well as an old Icom speaker mike and a Radio Shack speaker mike. These were all about the same as the original internal mike. Deviation of touchtones is approximately correct.

I have noticed that several other local IC-24AT's also have low deviation, so it is conceivable that there is either a chronic problem related to a batch of defective parts, or the design of the circuit is at fault. Either way, there should be a service bulletin if the problem is as common as it appears to be.

Assuming that the problem is a defective part, I noticed that there is a shunt element across the audio, that appears to short microphone signals to

ground when touchtones are keyed. If that element had too low of an "off" impedance, it might reduce the microphone signal level. I've never had a chance to check any further. I suppose you have noticed how tiny the radio's components are!

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 1 Mar 93 18:15:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: Gas filled coax (Was: Re: Soldering PL259's)
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, zlau@arrl.org writes:

>Anyone have any practical ideas for preventing water from condensing
>inside 9913? I know the broadcast stations pressurize their cables
>with dry gas, but don't know of amateurs going through this trouble.

I know of a ham in Western New York that in fact does have several gas pressurized heliax lines (I think that's what it is... some kind of big stuff) running underground from the radio room to the towers. There are several gauges mounted on the wall next to where the cables come in to monitor pressure in the lines.

-Keith, WA2Q

P.S. - Yes, the towers/antennas are equally as impressive.

P.S.#2 - No, this isn't my station I'm referring too. (Don't I wish!) ;^)

keith@radio.nusc.navy.mil

Date: 2 Mar 93 01:16:23 GMT
From: ogicse!uwm.edu!msuinfo!netnews.upenn.edu!mipg.upenn.edu!yee@network.UCSD.EDU
Subject: Ground planes and vertical dipoles
To: info-hams@ucsd.edu

Thanks for all the info about ground planes. I think I understand them a bit better now (at least to the point where I understand the difference between safety/Earth ground and the RF ground.

About the ground planes, though- they should be 1/4 wave radials. No problem so far. In HF mobile, however, the groundplane is the

top of the car? It is highly unlikely that the "size" of the car is 1/4 wave. I could see that the top of the car could conceivably be the equivalent of an infinite number of radials but these radials wouldn't be 1/4 in length. I also see that the size of the top must be an important factor (at least in terms of a minimum size) since if it were not, the limit as the size approaches zero would also be a valid groundplane but this can not be. How does groundplanes which are flat plates determined?

Also, the fact that the radials are 1/4 wave is an interesting point by itself. What is the tolerance of these radial lengths? What is the effect of having a radial which is a bit longer or a bit shorter?

--

411 Blockley Hall		Conway Yee, N2JWQ
418 Service Drive		yee@ming.mipg.upenn.edu (preferred)
Philadelphia, PA 19104		cy5@cunixa.cc.columbia.edu (forwarded to above)
(215) 662-6780		

Date: 1 Mar 93 21:11:43 GMT
From: usc!isi.edu!gremlin!cam.nad.northrop.com!jmeacham@network.UCSD.EDU
Subject: Help! TVI in touch on lamps.
To: info-hams@ucsd.edu

I have a neighbor who has two touch on lamps in his bedroom. These lamps have three way bulbs and they work by touching the metal base. Each time you touch the lamp it will cycle to one of three levels or on or off. My neighbor came banging on my door saying that I am in his wiring with my radio stuff and it is making his lamps go on and off. I asked him to bring one of the lamps over and we will see if it is my radio.

I started with 100w on 40m and each time I keyed the xmitter the lamp would respond. I tried other bands. Same effect! I lowered power to 10w and still these lamps would respond. I put a toroid the lamp power cord and it still came on.

I finely tried my 2m 3w HT, it will effect the lamps when it is as far as 5 feet away from them. I think it is the magnetic part of my signal since the range is short. His bedroom is on the second story about 40 feet from the base of my butternut Ant. I can see that it is my radio stuff (what he calls my ham shack) that is getting into his lamps. Has anyone ever had this problem or does anyone have any suggestions short of new lamps or moving my Butternut. Thanks in Advance

John W. Meacham jmeacham@cam.nad.northrop.com | __o o
Operations Productivity, Northrop Aircraft Division | _'\<,_ </_
One Northrop Av, Hawthorne, CA 90250 m/s 5982/23 | (*)/ (*) -\\/
Tel: (310) 332-9196 Fax: (310) 332-3396 |73 from KJ6TK /_

Date: 1 Mar 93 16:30:14 GMT
From: ogicse!uwm.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!news.acns.nwu.edu!
casbah.acns.nwu.edu!lapin@network.UCSD.EDU
Subject: Help with QSL address
To: info-hams@ucsd.edu

Does anyone have a mailing address for CU2BJ?

Thanks,

Greg KD9AZ
glapin@nwu.edu

Date: Mon, 1 Mar 1993 23:03:54 GMT
From: pacbell.com!tandem!dsg.tandem.com!vic@ames.arpa
Subject: How to use a TS-520 w/ an Isolooop
To: info-hams@ucsd.edu

Hi all,

Can someone please supply me with a step by step instruction in the tune-up and operation of a TS-520. My antenna is an Isolooop. I recently bought this rig used, but unfortunately I think I blew up the finals. The symptom is the fuse keeps blowing. Its in the repair shop being fixed. I thought I was following the Kenwood user's manual correctly, so I don't know what I did wrong. Thanks.

Victor Pantaleon, KB6GVJ
vic@dsg.tandem.com

Date: Mon, 1 Mar 1993 18:29:39 GMT
From: usc!howland.reston.ans.net!spool.mu.edu!uwm.edu!linac!att!cbnewse!

k9un@network.UCSD.EDU
Subject: IC-W21AT - an opinion
To: info-hams@ucsd.edu

hen I saw the add for the new ICOM ICW21AT Dual Band HT in QST a month ago, I thought I was "in love". It looked good, was the "right" size, and had some interesting new features over the ICW2AT. I briefly saw (and touched) one at a local hamfest and without getting an opportunity to listen to it, I ordered one through a local ham store. After several weeks of waiting, I got the call that IT arrived :-)

I was sadly disappointed when I got the chance to really play (and compare) the radio at the store :-)

NOTE that I was interested in the broadband capabilities as much as the ham capabilities. That is, this was to double as my handheld public service band scanner.

Physically, it looked and felt great! Then I turned it on. The following reasons, caused me to by the older W2 instead:

- 1) The receive audio is terrible! It sounds like a speaker hooked up to an old crystal set. The speaker mic improved things greatly. It seems that ICOM designed the radio to be used withOUT the DTMF pad. In that configuration there is a direct port for the speaker. In the DTMF model, the pad covers most of the speaker and what little audio comes out of s few holes to the right of the speaker.
- 2) The receiver sensitivity on the out of (ham) band frequencies was considerably less than that of the W2 (at least in the 800MHZ range). Both W21 and W2 antennas were used on both radios in the test.
- 3) The W21 stock antenna is very tightly tuned to the ham bands thus affecting the broadband receiving capabilities. Had I bought the W21, I would have bought an extra W2 antenna.
- 4) The W21 requires YET ANOTHER drop-in charger! I already have a drop in charger for my old u2AT as tell as for my wife's (ka9kdy) P2AT. It turns out the P2AT charger will work with the W2 with in insert.

For me, this radio (W21) did not pan out as I had hoped. I am now a happy owner of a W2. ICOM needs to address the receive audio problem for sure. On the positive side, ICOM has gone back to supporting the "standard" ICOM speaker mic accessories on the W21. I never did understand why they went to the new configuration on the W2! I suppose there are some people who like seperating the audio from the 2 receivers. It seems that they could

have provided that capability without changing the basic configuration.

Wes Ague - k9un

Date: 1 Mar 93 18:10:07 GMT
From: ogicse!emory!wupost!psuvax1!psuvm!pjc130@network.UCSD.EDU
Subject: Motorola Radius Programming
To: info-hams@ucsd.edu

I have need of a programmer for Motorola Radius mobiles. My BizBand radio has a few empty channels, and I would like to put my favorite freqs in there. I've looked at the Motorola programmer, but the price I was quoted was way too high. (Maybe the dealer wants me to pay him \$50 every time I change my mind...) I've heard of aftermarket programmers that are actually reasonable in price, and would like to find a source for those.

Or, if someone could give me instructions for building my own programmer, that would be fine as well.

Thanks.

Please reply to paul@n3eop.pgh.pa.us. Tnx.

Date: 1 Mar 93 15:17:28 CST
From: mvb.saic.com!unogate!news.service.uci.edu!usc!newshub.sdsu.edu!ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!gatech!ukma!netnews.louisville.edu!wkuvx1!bcobb@network.UCSD.EDU
Subject: NEED DOPPLER DF INFO
To: info-hams@ucsd.edu

Am looking for any information concering doppler shift direction finding. Several firms market doppler shift RDF equipment, but I can't seem to find any schematics..I wan't to build something to track down some local repeater problems.. Any infor would be of help..73 and tnx Bob-KA4CLL

Date: 1 Mar 93 17:01:36 GMT
From: news-mail-gateway@ucsd.edu
Subject: PI Networks
To: info-hams@ucsd.edu

>Date: 26 Feb 1993 11:18 EST

>From:usc!howland.reston.ans.net!agate!eos!data.nas.nasa.gov!eagle!lims01.lerc
>-.nasa.gov!lwwald@network.UCSD.EDU
>Subject: Amplifier Tuning
>To: info-hams@ucsd.edu
>

>on 80 and 40 I can't get the "Load"capacitor to peak the power output. It
>loads such that I have the setting at one end of the capacitors travel.
>

>larry, KE8GW
>

Larry, you didn't say what kind of antenna you are using so I
assume it is some sort of multi-bander. I had the same problem
with a G5RV and a good antenna tuner solved the problem. If
nothing is wrong with your PI-network or antenna, the impedance
difference between your final amp and your antenna is outside of
the matching limits of the PI-network (either too low or too
high). PI-networks have a limit to the range of impedences they
will match. They don't like very low impedences and they don't
like high reactances. "Very often these reactances will render
most of the matching circuits impractical." ARRL Handbook.
Cecil Moore, KG7BK (ex-W6RCA, ex-W5DXP)

Date: 1 Mar 1993 18:44:50 GMT
From: saimiri.primate.wisc.edu!usenet.coe.montana.edu!news.uoregon.edu!fp2-st-
affairs-2.uoregon.edu!user@ames.arpa
Subject: SB200 electrolytic cap...HELP!!!!!!
To: info-hams@ucsd.edu

Does anyone know of a source for the electrolytic capacitors that go on the
diode board of the old SB-200 linear?

It's a can type capacitor: 125 MFD 450DCWV. The can is negative.

The part numbers on the cap are B-25-34 (or the other # 102-6440).

I called Heath parts and they don't have it. Neither does Allied
Electronics.

Any other tips would be greatly appreciated.

Thanks & 73,
Steve/AA7FL
milewski@oregon.uoregon.edu

Date: Mon, 1 Mar 1993 17:39:10 GMT
From: usc!howland.reston.ans.net!gatech!concert!ecsgate!crisp@network.UCSD.EDU
Subject: TM221-A and PK-232-MBX for sale
To: info-hams@ucsd.edu

Hello.

I have a couple of items I'd like to move. I have a Kenwood TM-221A 2 meter mobile unit, and a PK232-MBX TNC for sale.

The Kenwood TM-221A is in excellent condition. I am the original owner, and it comes in the original box with all documentation. It's been a real good unit, but I'm going for a dual bander. It has extended receive, from 140 to 174 Mhz, and will transmit on an frequency in the 2 meter band. I sent it in to the factory about a year ago for a checkup. The right dial light has burned out, ut this is a very easy, inexpensive fix. 50 Watt power on high, low is adjustable. It has several memories, and scans. It has a very good receiver, with GaAs devices in the front end. Excellent in-band sensitivity. Paid upwards of \$400 for this one.
Asking Price: \$250.00

The PK232-MBX is less than a year old, and comes in the original box with all documentation. The packet bug bit me, but I didn't get the fever. This unit has seen very little action, in new condition. Functions nicely as a TNC, a has many other capabilities such as AMTOR, RTTY, several FAX modes, etc. Will send as well as receive these modes. Has mailbox capability. I'll even in throw in the cables I built to connect the unit to the PC. I paid over \$300 for this one just a short time ago, and they haven't gotten any cheaper..
Asking price: \$250.00

If you want more info, or want to make an offer, drop me a note!

Thanks,
Russ Crisp
Systems Analyst
Western Carolina University

Date: 1 Mar 93 17:20:04 GMT
From: amdcad!amdcl2!brian@decwrl.dec.com
Subject: too darn big!
To: info-hams@ucsd.edu

blair@dseg.ti.com writes:

[in response to my (Brian's) suggestion of making r.r.a.misc moderated]

> I'd rather see it broken up than censored. You're subjecting yourself to
> someone else's tastes.
> Art.

What I really had in mind was leaving r.r.a.misc exactly as is and
creating r.r.a.moderated alongside it. Kinda like rec.humor.funny and
rec.humor.

Brian McMinn, N5PSS, brian@amd.com

(.signature under construction)

Date: Mon, 1 Mar 1993 18:19:05 GMT
From: saimiri.primate.wisc.edu!zaphod.mps.ohio-state.edu!cs.utexas.edu!convex!
tonyp@ames.arpa
Subject: too darn big!
To: info-hams@ucsd.edu

WHAT TO DO ABOUT IT?

Look - it's real easy;

o First, you make a set of groups:

- rec.amateur.misc.160
- rec.amateur.misc.80
- rec.amateur.misc.40
- rec.amateur.misc.30
- rec.amateur.misc.20
- rec.amateur.misc.17
- rec.amateur.misc.15
- rec.amateur.misc.12
- rec.amateur.misc.10
- rec.amateur.misc.TVI
- rec.amateur.misc.2
- rec.amateur.misc.other

o Next, you break each one up into categories:

- rec.amateur.misc.80.extra_cw
- rec.amateur.misc.80.general_cw

rec.amateur.misc.80.novice_cw
rec.amateur.misc.80.amtor
rec.amateur.misc.80.packet
rec.amateur.misc.80.extra_phone
rec.amateur.misc.80.general_phone
rec.amateur.misc.80.OFs
rec.amateur.misc.80.A-M
rec.amateur.misc.80.DX
rec.amateur.misc.80/_._./.__
rec.amateur.misc.80.SSB
rec.amateur.misc.80.static
rec.amateur.misc.80.tune_up

...
rec.amateur.misc.2.destinated
rec.amateur.misc.2.don't_even_think_of_saying_destinated
rec.amateur.misc.2.listening
rec.amateur.misc.2.Im_in_the_driveway_now
rec.amateur.misc.2.am_I_makin_the_machine?
rec.amateur.misc.2.key_the_mike_to_hear_the_repeater_kick_in

Then you could have contests, and post to all of 'em:

You could have a Worked All News Groups - or "WANG" award.

And you could have "closed" get-togethers for the winners -
where you'd have to "show us your WANG" to get in...

--

Tony J. Podrasky	Awh, you guys THIRSTY after all that singin' ?
San Diego , Ca	OK - KOOLAID for everybody!!! - Rev. Jim Jones
tonyp@convex.com	

QSL? QRU? QRZ? QLZ? QFA?

Date: 1 Mar 93 16:11:44 GMT
From: usc!zaphod.mps.ohio-state.edu!saimiri.primate.wisc.edu!
usenet.coe.montana.edu!logicse!flop.ENGR.ORST.EDU!gaia.ucs.orst.edu!
hebron.connected.com!beauty!nwnexus!seanews!eskimo!mann@network.UCSD
Subject: too darn big!
To: info-hams@ucsd.edu

In article <1993Feb27.193634.10479@mksol.dseg.ti.com>, blair@dseg.ti.com (Art Blair 952-6341) writes:

> In article B9M@amdcl2, brian@amdcl2.amd.com (Brian McMinn, N5PSS) writes:

> >(Fred Lloyd [Phoenix SE]) writes:

> >> There are several ways to organize and regulate this newsgroup:
> >>
> >> a) Make it moderated.
> >
> >Sounds like an idea who's time has come. Now if we can just find
> >someone willing to moderate it! :-)
> >
>
> I'd rather see it broken up than censored. You're subjecting yourself to
> someone else's tastes. At the very least I'd like to see a separate group
> for homebrew.

I agree with Art. Moderating this news group would be a real pain and probably slow down propagation forecasts, etc. My own preference would be a group for announcements, technical, dx and rag-chew. The only category I'm interested in is technical and that would be a small percentage of what I usually see in this group.

Anyway, that's my opinion.

--

Tom "Old" Mann KD9NL/7 Kirkland, Wash.

Date: 28 Feb 93 19:29:25 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!saimiri.primate.wisc.edu!
mimbres.cs.unm.edu!nmt.edu!bateman@network.UCSD.EDU
Subject: Wanted:: 9913 -- good source?
To: info-hams@ucsd.edu

I need a spool (100') of 9913. Anybody know of a good (cheap!) source?

Thanks,

Monte

--

```
=====
Dr. Monte Bateman -- Physics PostDoc | InterNet: bateman @ owl.nmt.edu
Langmuir Laboratory for | Amateur Radio: WB5RZX
Atmospheric Research, |
New Mexico Institute of Mining |
and Technology, Socorro, NM |
=====
```

Date: Sun, 28 Feb 1993 00:52:12 GMT

From: decctrl!news.crl.dec.com!dbased.nuo.dec.com!nntpd.lkg.dec.com!
decabo.abo.dec.com!anarky.enet.dec.com!brewer@decwrl.dec.com
Subject: Want to know best time for UK contacts
To: info-hams@ucsd.edu

In article <1993Feb25.143417.17677@newshost.lanl.gov>, tjf@beta.lanl.gov (Tom J Farish) writes...

>Hi...I currently reside in New Mexico and have had some very good

I'm in new mexico too!

On 10m try 13--1700 utc. I hang out in the
AM section and hear european stations even on
AM during those times.

73/john

```
-----  
| John Brewer | Internet: brewer@anarky.enet.dec.com |  
|   wb5oau   | Packet   | wb5oau@wb2ars       |  
-----
```

Date: Mon, 1 Mar 93 18:06:08 GMT
From: agate!spool.mu.edu!wupost!micro-heart-of-gold.mit.edu!xn.ll.mit.edu!
ll.mit.edu!wjc@ames.arpa
Subject: Where to buy Litz wire
To: info-hams@ucsd.edu

In article <1mt9pb\$8i@hamblin.math.byu.edu>, richard@gecko.ee.byu.edu (Richard Christensen) writes:

|>
|> Can someone tell me where I can buy some
|> Litz wire.

Amidon in California sells it (or used to). Perhaps someone else can
pass the address.

Bill Chiarchiaro N1CPK
wjc@ll.mit.edu

Date: Mon, 1 Mar 1993 19:07:10 GMT
From: usc!howland.reston.ans.net!agate!stanford.edu!CSD-NewsHost.Stanford.EDU!
umunhum!paulf@network.UCSD.EDU
Subject: Yet Another License Datapoint...
To: info-hams@ucsd.edu

Passed my Extra on 12/19/92; got the real piece of paper on 2/22/93.

-=Paul Flaherty, N9FZX | "We are meant to be masters of destiny, not victims
->paulf@Stanford.EDU | of fate." -- Ronald Reagan

--

-=Paul Flaherty, N9FZX | "We are meant to be masters of destiny, not victims
->paulf@Stanford.EDU | of fate." -- Ronald Reagan

End of Info-Hams Digest V93 #272
